PROJECT

VOLUME -2

	Total length of project including Entry & Exit Ramps
Construction of Elevated Corridor (Flyover) at Konanakunte Cross on Kanakapura Road	1.50km

TITLE

TENDER DRAWINGS

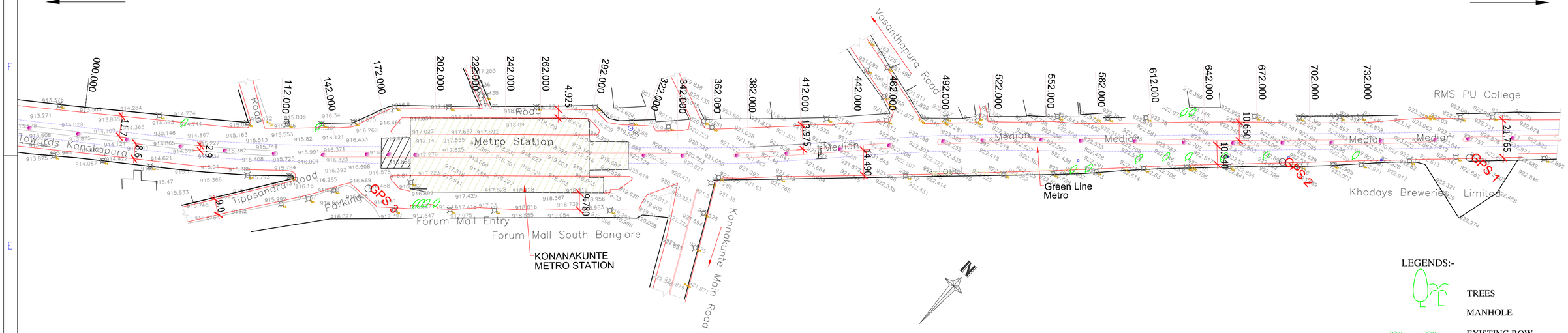
CLIENT:

BENGALURU SMART INFRASTRUCTURE LIMITED (B-SMILE)
#108,1st Floor, Annexe-2 Building
N.R.Square,Bengaluru-560002

DPR CONSULTANTS:

NAGESH CONSULTANTS
2, 6TH CROSS ASHOKANAGARA,
BSK 1ST STAGE
BANGALORE - 560 050

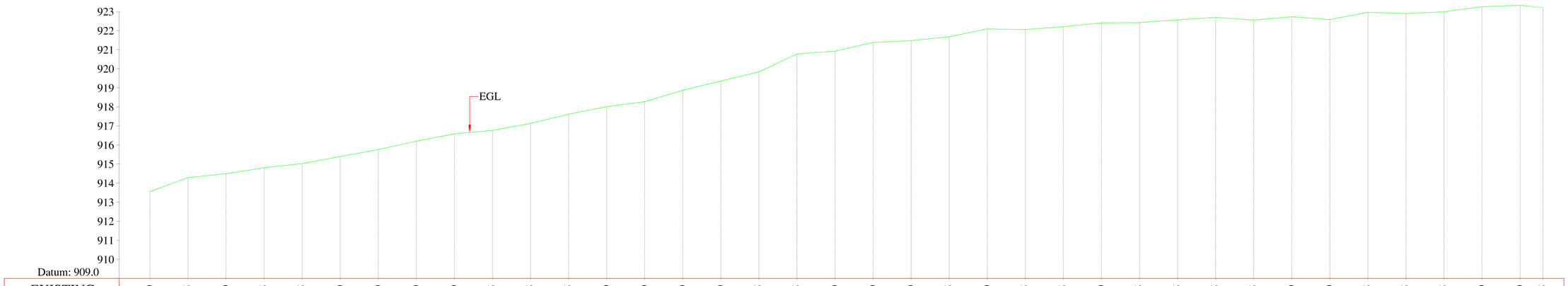
TOPO DWAWING



LEGENDS:-

- TREES
- MANHOLE
- EXISTING ROW
- EXISTING ROAD
- EXISTING METRO PIERS
- ELECTRIC POLE
- BUILDING

REFERENCE-COORDINATES		
POINTS	EASTING	NORTHING
GPS1	778523.1150	1426608.9600
GPS2	778445.6800	1426535.7210
GPS3	778069.5210	1426175.3110



CHAINAGE (m)	EXISTING LEVEL (m)
0.000	913.550
20.000	914.285
40.000	914.490
60.000	914.805
80.000	915.025
100.000	915.390
120.000	915.760
142.000	916.200
172.000	916.590
202.000	916.765
222.000	917.135
242.000	917.615
262.000	918.010
292.000	918.270
322.000	918.870
342.000	919.350
362.00	919.835
382.000	920.775
412.000	920.920
442.000	921.380
462.000	921.480
492.000	921.675
522.000	922.090
552.000	922.055
582.000	922.205
612.000	922.410
642.000	922.425
672.000	922.565
702.000	922.695
720.000	922.555
720.000	922.730
720.000	922.580
720.000	922.965
720.000	922.895
720.000	922.985
720.000	923.260
720.000	923.330
732.000	923.205

LONGITUDINAL SECTION OF KANAKAPURA TO BANASHANKARI

SCALE H=1:1000, V=1:100

TENDER DRAWING

PROJECT :

Proposed Flyover at Konanakunte Cross for through traffic from kanakapura to Banashankari.

CLIENT :

BENGALURU SMART INFRASTRUCTURE LIMITED (B-SMILE)

#108,1st Floor, Annexe-2 Building

N.R.Square,Bengaluru-560002

REV.	DATE	DESCRIPTION	SIGN

DRG NO : NC/B-SMILE/TOPO-01

TITLE : **TOPO DRAWING**

DRAWN BY : N.D.N | DESIGNED BY :H.V.S

CHECKED BY : MANJUNATH H.S | APPROVED BY : BVN

DATE : 05.08.2025

SHEET SIZE (A2) | SHEET SCALE: AS SHOWN

CONSULTANT SIGNATURE :

B.V. NAGESH

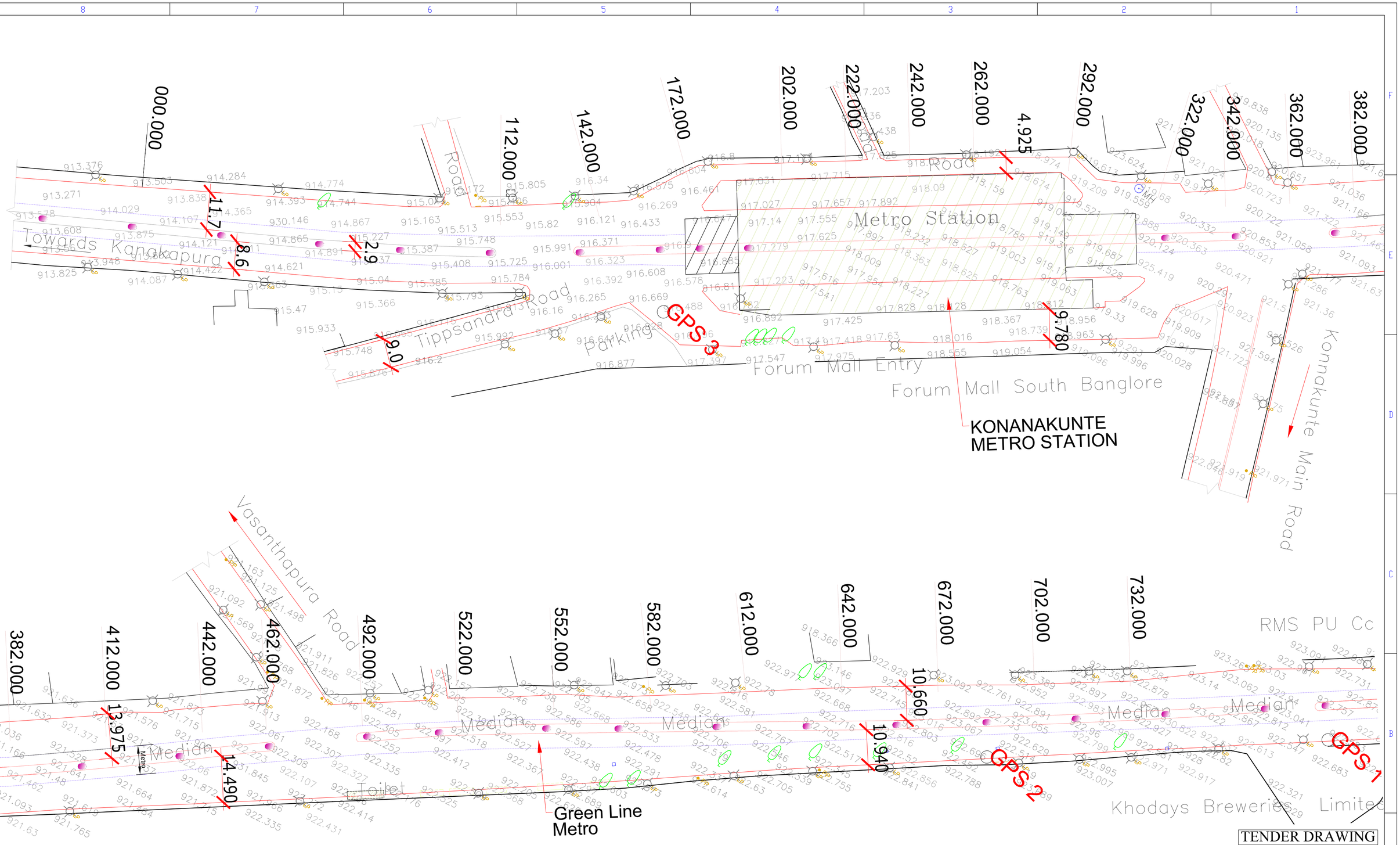
DPR CONSULTANT :

M/S NAGESH CONSULTANTS

2, 6 TH CROSS,

ASHOKNAGAR, BSK I STAGE,

BANGALORE - 560 050



PROJECT :

Proposed Flyover at Konanakunte Cross for through traffic from kanakapura to Banashankari.

CLIENT :

BENGALURU SMART INFRASTRUCTURE LIMITED (B-SMILE)

#108,1st Floor, Annexe-2 Building

N.R.Square,Bengaluru-560002

REV.	DATE	DESCRIPTION	SIGN

DRG NO : NC/B-SMILE/TOPO-01a

TITLE : **TOPO DRAWING**

DRAWN BY : HVS	DESIGNED BY :NDN
CHECKED BY : MANJUNATH H.S	APPROVED BY : BVN
DATE :	17.06.2025
SHEET SIZE (A2)	SHEET SCALE: AS SHOWN

CONSULTANT SIGNATURE :

B.V. NAGESH

DPR CONSULTANT :

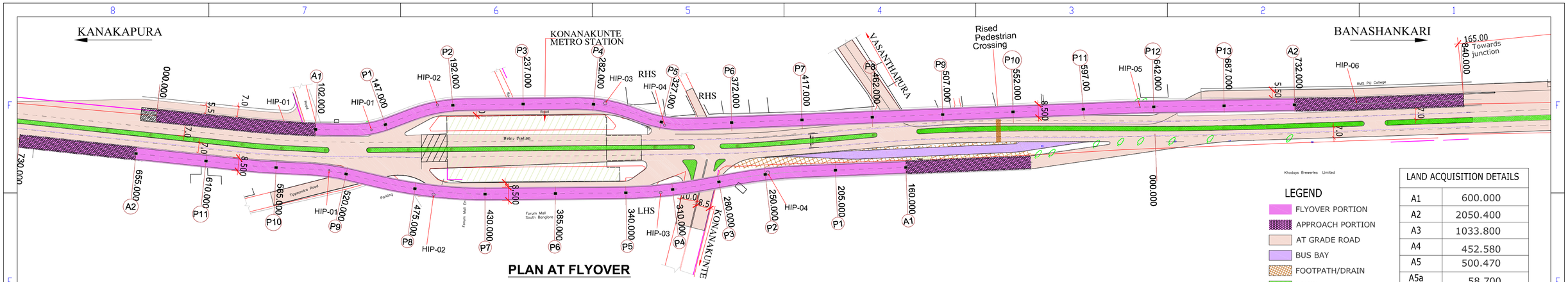
M/S NAGESH CONSULTANTS

2, 6 TH CROSS,

ASHOKNAGAR, BSK I STAGE,

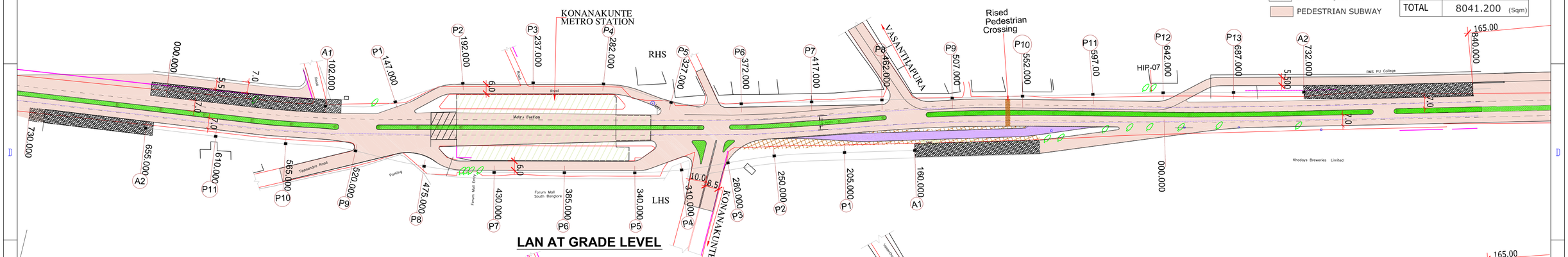
BANGALORE - 560 050

PLAN AND PROFILE

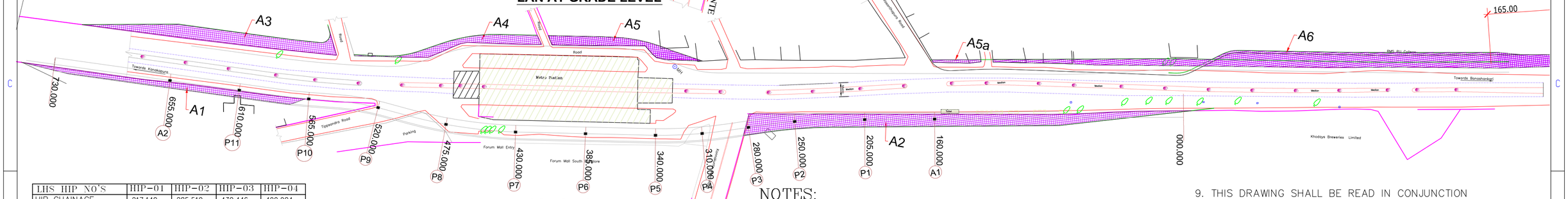


PLAN AT FLYOVER

LAND ACQUISITION DETAILS	
A1	600.000
A2	2050.400
A3	1033.800
A4	452.580
A5	500.470
A5a	58.700
A6	3345.250
TOTAL	8041.200 (Sqm)



LAN AT GRADE LEVEL



PLAN AT LAND ACQUISITION DETAILS

LHS HIP NO'S	HIP-01	HIP-02	HIP-03	HIP-04
HIP CHAINAGE	217.140	285.510	430.446	499.904
DEVIATION ANGLE	10.60°	13.77°	9.870°	8.100°
RADIUS OF CURVE	150.00m	301.00m	301.00m	301.00m
CURVE LENGTH	27.750m	72.355m	51.870m	42.530m
TANGENT LENGTH	13.915m	36.345m	25.990m	21.312m
BEGINNING OF CURVE	203.265	249.340	404.520	478.625
WIDENING	0.60	—	—	—

RHS HIP NO'S	HIP-01	HIP-02	HIP-03	HIP-04	HIP-05	HIP-06
HIP CHAINAGE	137.309	182.418	289.29	329.360	633.25	771.976
DEVIATION ANGLE	20.57°	20.11°	20.84°	22.42°	1.30°	1.250°
RADIUS OF CURVE	62.00m	100.00m	100.00m	80.00m	501.00m	501.00m
CURVE LENGTH	22.28m	35.10m	36.37m	31.31m	11.36m	10.94m
TANGENT LENGTH	11.25m	17.73m	18.39m	15.85m	5.68m	5.465m
BEGINNING OF CURVE	126.18	164.86	271.113	313.71	627.57	766.511
WIDENING	0.90	0.90	0.90	0.90	—	—

NOTES:

1. ALL CHAINAGES AND LEVELS ARE IN Mtrs
2. HORIZONTAL AND VERTICAL ALINGNMENT AS PER IRC-86
3. MINIMUM VERTICAL CLEARANCE BELOW SUPER STRUCTURE IS 5.5M
4. DESIGN SPEED=60 Kmph, IN GENERAL.
5. ALL DESIGN MIX CONCRETE SHALL CONFORM TO TABLE 6.4 AND Cl.18.5.4 OF IRC: 112-2020.
6. CONDITION OF EXPOSURE - 'MODERATE'.
7. SEISMIC ZONE - II.
8. DO NOT SCALE THE DRAWING. FOLLOW FIGURED DIMENSIONS ONLY.
9. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH OTHER RELAVENT DRAWINGS OF THIS WORK.

REFERENCES: -

1. IRC:86, IRC:106 - FOR HIGHWAY GEOMETRY.
2. (i) IRC:6-2019,
   (ii) IRC:18-2000,
   (iii) IRC:112-2020,
   (iv) IRC:78-2014,
   (v) IRC:65-2017,
   (vi) IRC:SP:90-2023,

TENDER DRAWING

PROJECT :

Proposed Flyover / Underpass at Konanakunte Cross for through traffic from Kanakapura to Banashankari.

CLIENT :

BENGALURU SMART INFRASTRUCTURE LIMITED (B-SMILE)

#108,1st Floor, Annexe-2 Building
N.R.Square,Bengaluru-560002

REV.	DATE	DESCRIPTION	SIGN

DRG NO : NC/B-SMILE/P&P-02

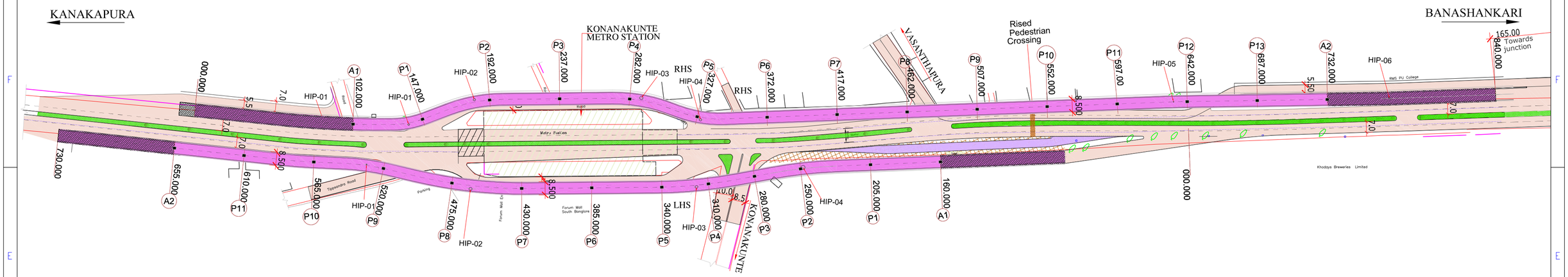
TITLE : **PLAN at Grade/Elevated Drawing**

DRAWN BY : H V S | DESIGNED BY :
CHECKED BY : MANJUNATH H.S | APPROVED BY : BVN
DATE : 05.08.2025
SHEET SIZE (A2) | SHEET SCALE: AS SHOWN
CONSULTANT SIGNATURE :

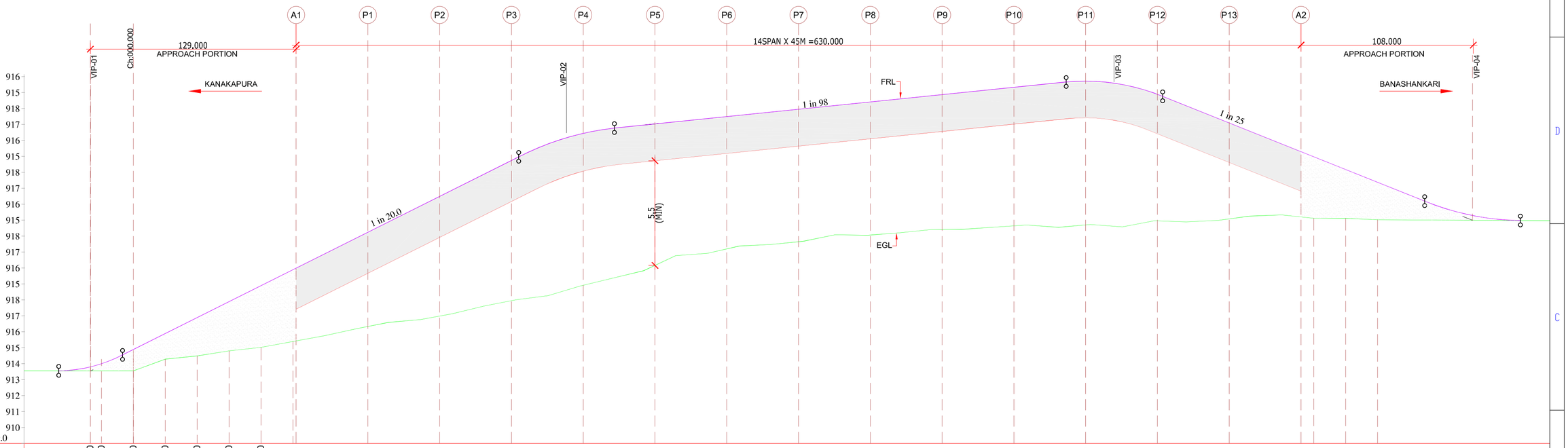
B.V. NAGESH

DPR CONSULTANT :

M/S NAGESH CONSULTANTS
2, 6 TH CROSS,
ASHOKNAGAR, BSK I STAGE,
BANGALORE - 560 050



PLAN AT FLYOVER



LONGITUDINAL SECTION OF KANAKAPURA TO BANASHANKARI (RHS)

SCALE H=1:1000, V=1:100

TENDER DRAWING

PROJECT :

Proposed Flyover / Underpass at Konanakunte Cross for through traffic from Kanakapura to Banashankari.

CLIENT :

BENGALURU SMART INFRASTRUCTURE LIMITED (B-SMILE)

#108,1st Floor, Annexe-2 Building

N.R.Square,Bengaluru-560002

REV.	DATE	DESCRIPTION	SIGN

DRG NO : NC/B-SMILE/P&P-03

TITLE : **PLAN & PROFILE**

DRAWN BY : H V S | DESIGNED BY :

CHECKED BY : MANJUNATH H.S | APPROVED BY : BVN

DATE : 05.08.2025

SHEET SIZE (A2) | SHEET SCALE: AS SHOWN

CONSULTANT SIGNATURE :

B.V. NAGESH

DPR CONSULTANT :

M/S NAGESH CONSULTANTS

2, 6 TH CROSS,

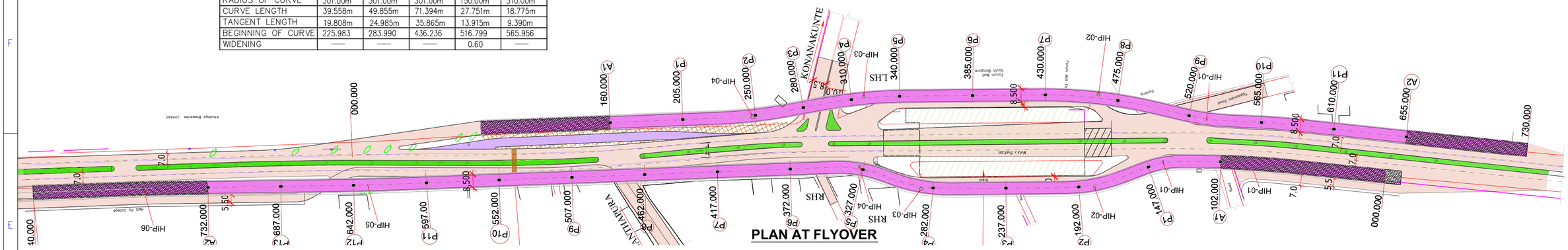
ASHOKNAGAR, BSK I STAGE,

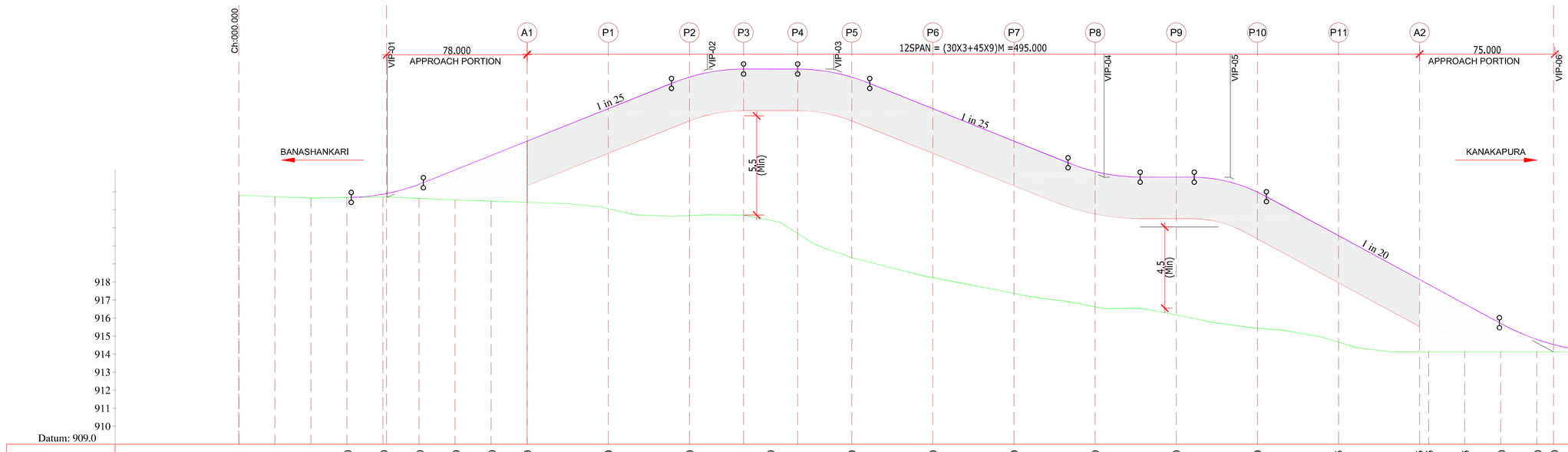
BANGALORE - 560 050

KANAKAPURA

BANASHANKARI

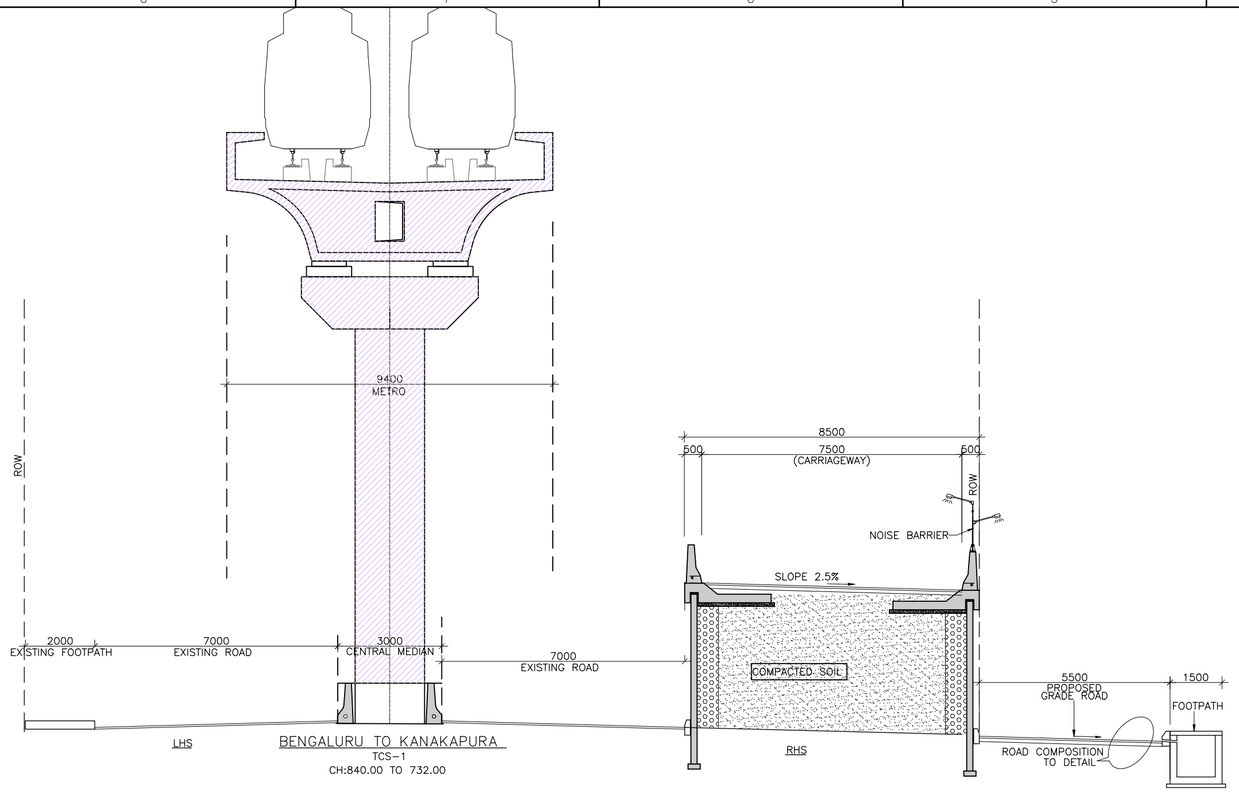
LHS HIP NO'S	HIP-01	HIP-02	HIP-03	HIP-04	HIP-05
HIP CHAINAGE	245.762	308.920	471.933	530.656	575.353
DEVIATION ANGLE	7.530°	9.490°	13.590°	10.600°	3.470°
RADIUS OF CURVE	301.00m	301.00m	301.00m	150.00m	310.00m
CURVE LENGTH	39.558m	49.855m	71.394m	27.751m	18.775m
TANGENT LENGTH	19.808m	24.985m	35.865m	13.915m	9.390m
BEGINNING OF CURVE	225.983	283.990	436.236	516.799	565.956
WIDENING	—	—	—	0.60	—

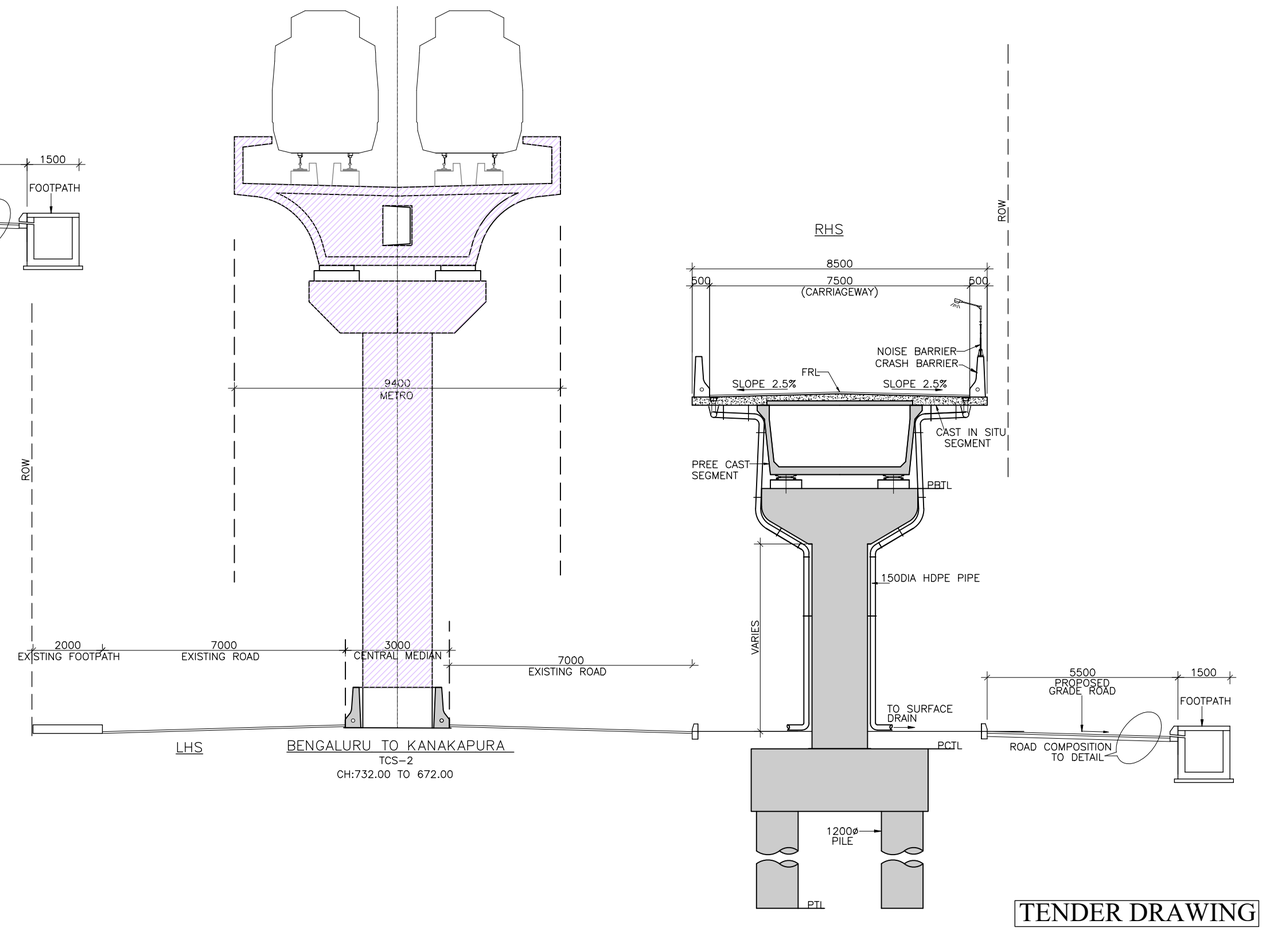




| | | |

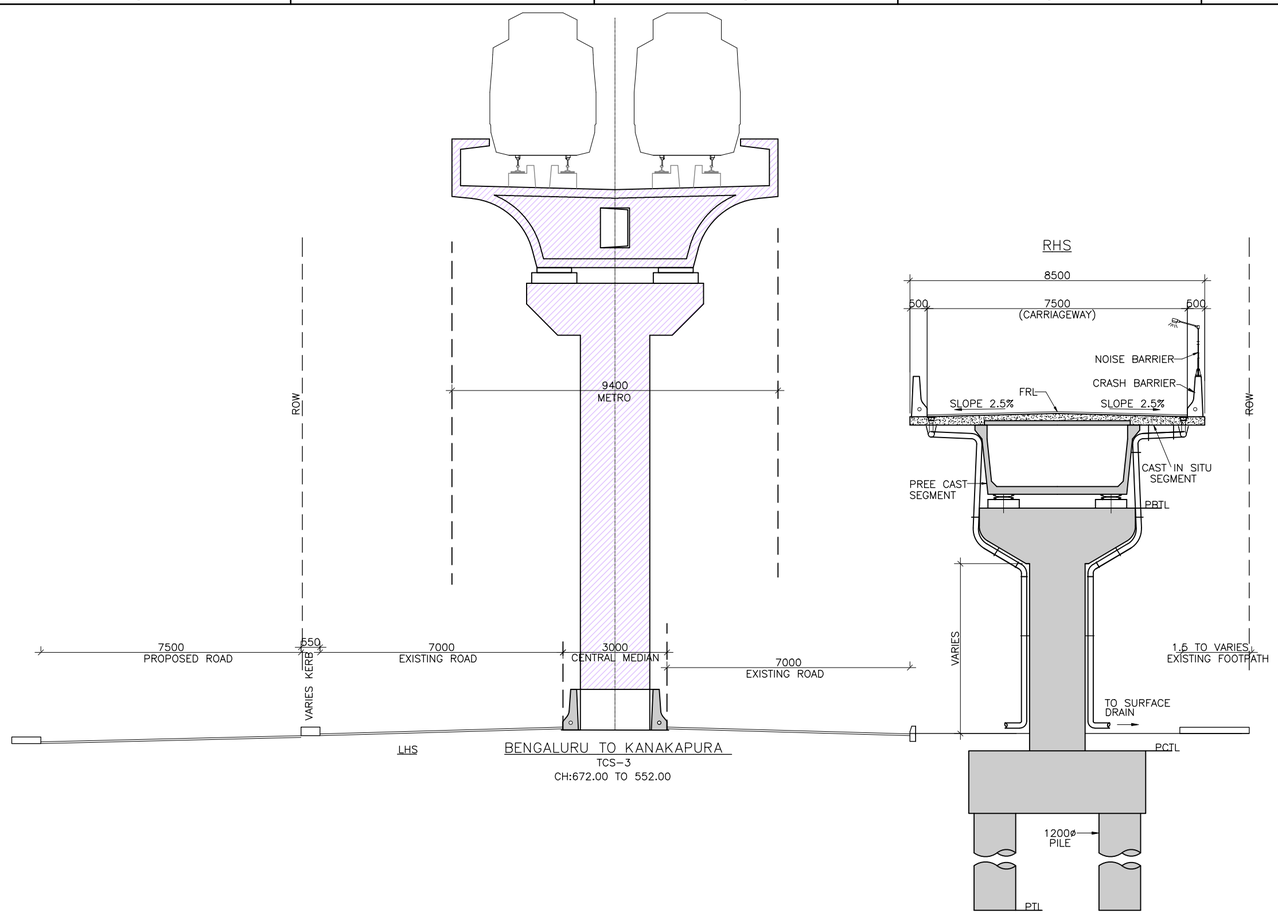
TYPICAL CROSS SECTIONS



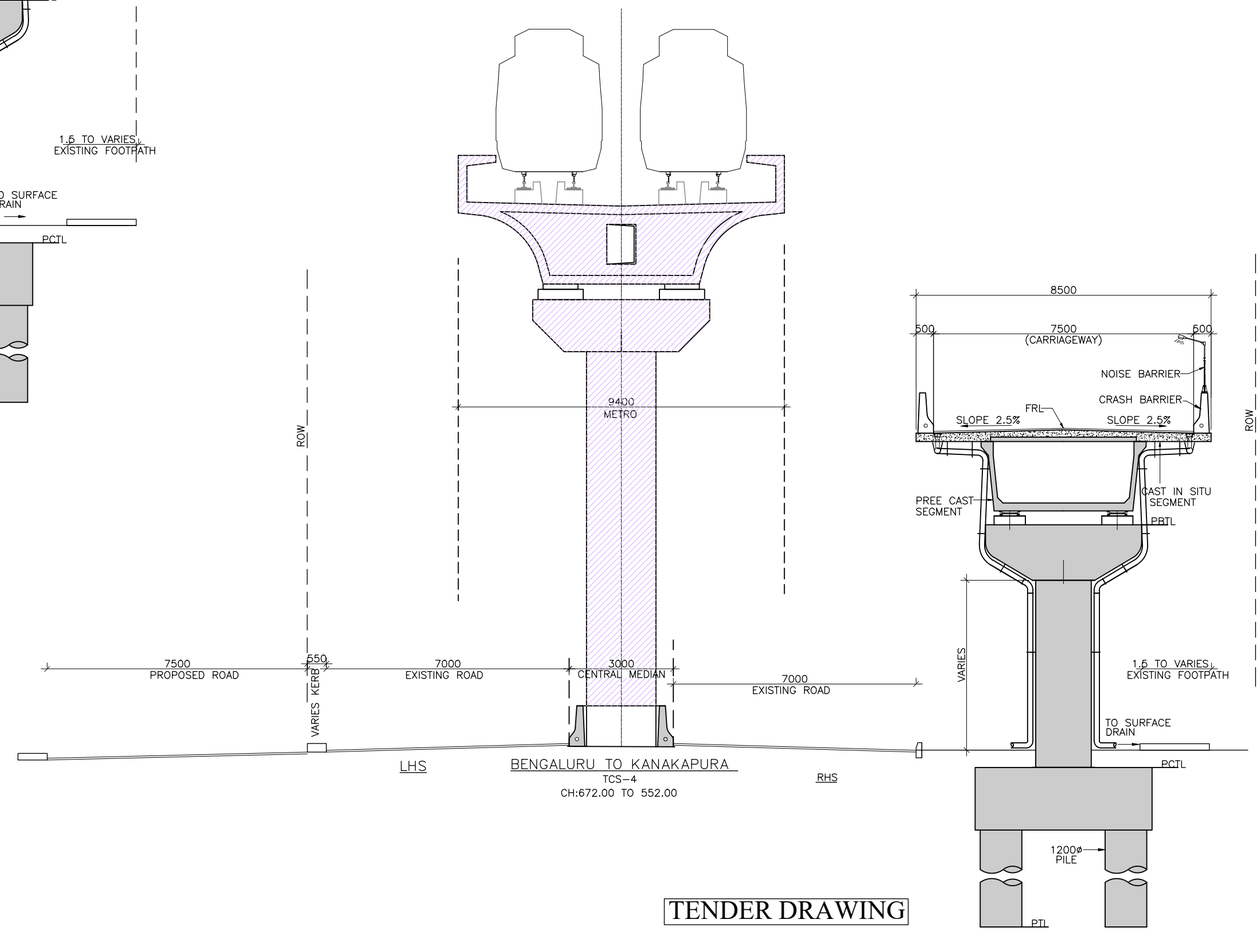


TENDER DRAWING

PROJECT : Proposed Flyover at Konanakunte Cross for through traffic from kanakapura to Banashankari.	CLIENT : BENGALURU SMART INFRASTRUCTURE LIMITED (B-SMILE) #108,1st Floor, Annexe-2 Building N.R.Square,Bengaluru-560002
REV. | DATE | DESCRIPTION | SIGN	DRAWN BY : NITYANAND | DESIGNED BY : SHYAM
DRG NO : NC/B-SMILE/TCS-01	CHECKED BY : MANJUNATH H.S | APPROVED BY : BVN
TITLE : **TYPICAL CROSS SECTION**	DATE : 26.06.2025 SHEET SIZE (A2) | SHEET SCALE: AS SHOWN CONSULTANT SIGNATURE : B.V. NAGESH
	DPR CONSULTANT : M/S NAGESH CONSULTANTS # 2, 6 TH CROSS, ASHOKNAGAR, BSK I STAGE, BANGALORE - 560 050



BENGALURU TO KANAKAPURA
TCS-3
CH:672.00 TO 552.00



BENGALURU TO KANAKAPURA
TCS-4
CH:672.00 TO 552.00

TENDER DRAWING

PROJECT :

Proposed Flyover at Konanakunte Cross for through traffic from kanakapura to Banashankari.

CLIENT :

BENGALURU SMART INFRASTRUCTURE LIMITED (B-SMILE)

#108,1st Floor, Annexe-2 Building

N.R.Square,Bengaluru-560002

REV	DATE	DESCRIPTION	SIGN

DRG NO : NC/B-SMILE/TCS-02

TITLE :

TYPICAL CROSS SECTION

DRAWN BY : NITYANAND	DESIGNED BY : SHYAM
CHECKED BY : MANJUNATH H.S	APPROVED BY : BVN
DATE :	26.06.2025
SHEET SIZE (A2)	SHEET SCALE: AS SHOWN

CONSULTANT SIGNATURE :

B.V. NAGESH

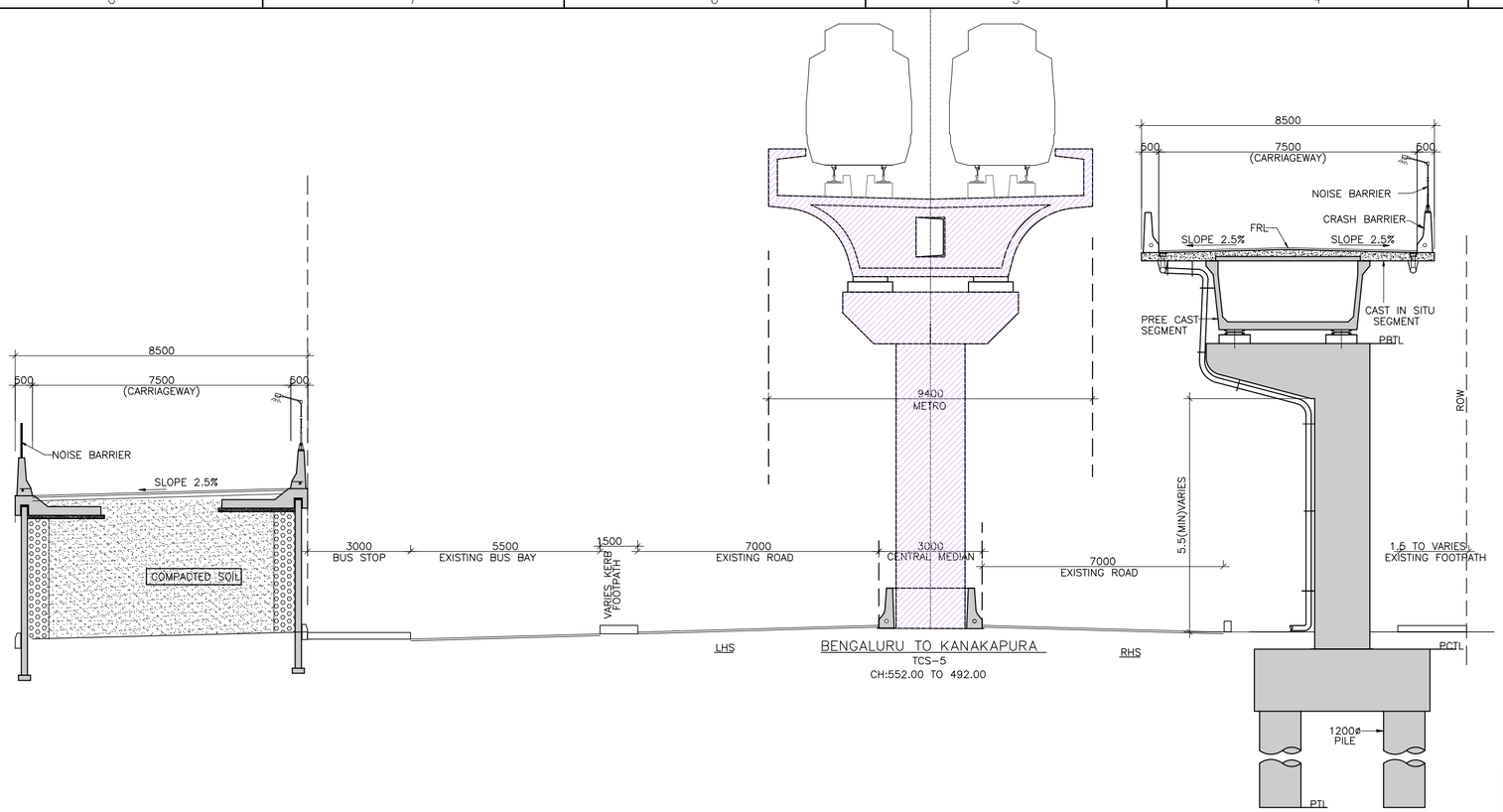
DPR CONSULTANT :

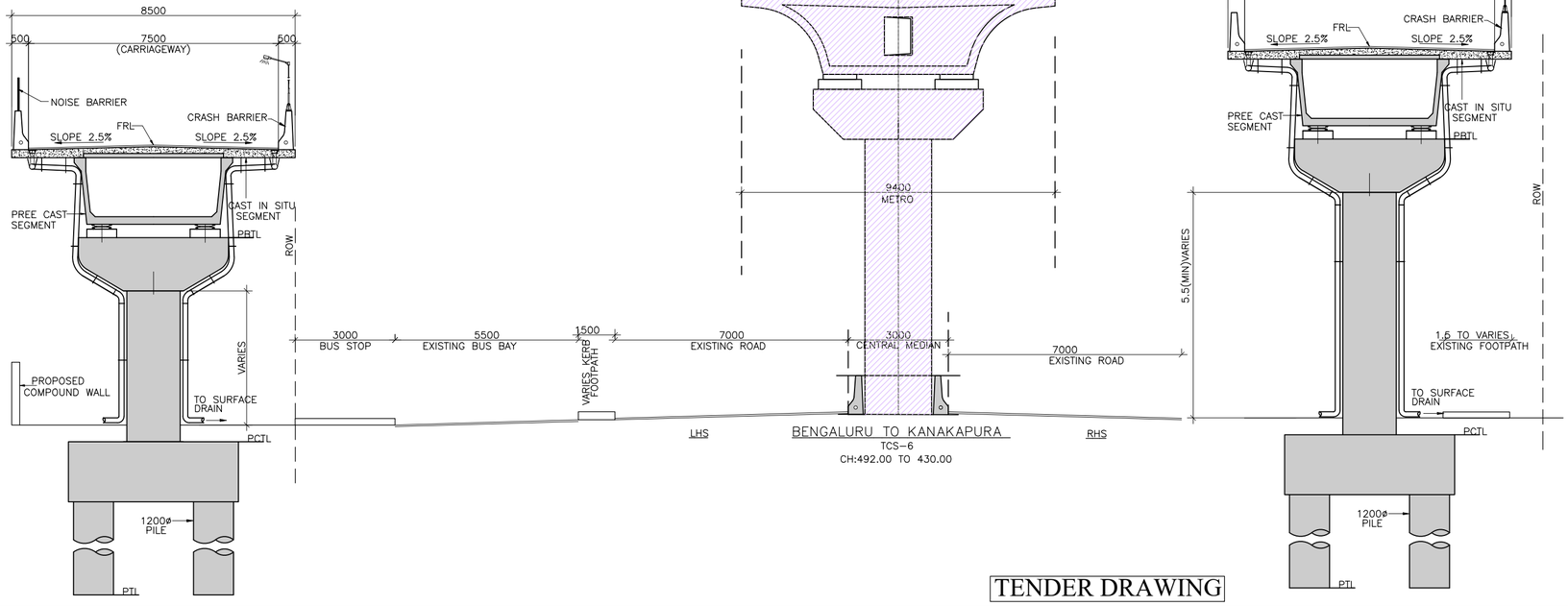
M/S NAGESH CONSULTANTS

2, 6 TH CROSS,

ASHOKNAGAR, BSK I STAGE,

BANGALORE - 560 050





TENDER DRAWING

PROJECT :

Proposed Flyover at Konanakunte Cross for through traffic from kanakapura to Banashankari.

CLIENT :

BENGALURU SMART INFRASTRUCTURE LIMITED (B-SMILE)

#108,1st Floor, Annexe-2 Building

N.R.Square,Bengaluru-560002

REV.	DATE	DESCRIPTION	SIGN

DRG NO : NC/B-SMILE/TCS-03

TITLE :

TYPICAL CROSS SECTION

DRAWN BY : NITYANAND	DESIGNED BY : SHYAM
CHECKED BY : MANJUNATH H.S	APPROVED BY : BVN
DATE :	26.06.2025
SHEET SIZE (A2)	SHEET SCALE: AS SHOWN

CONSULTANT SIGNATURE :

B.V. NAGESH

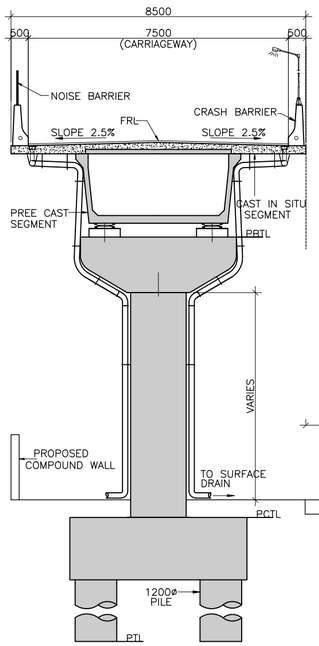
DPR CONSULTANT :

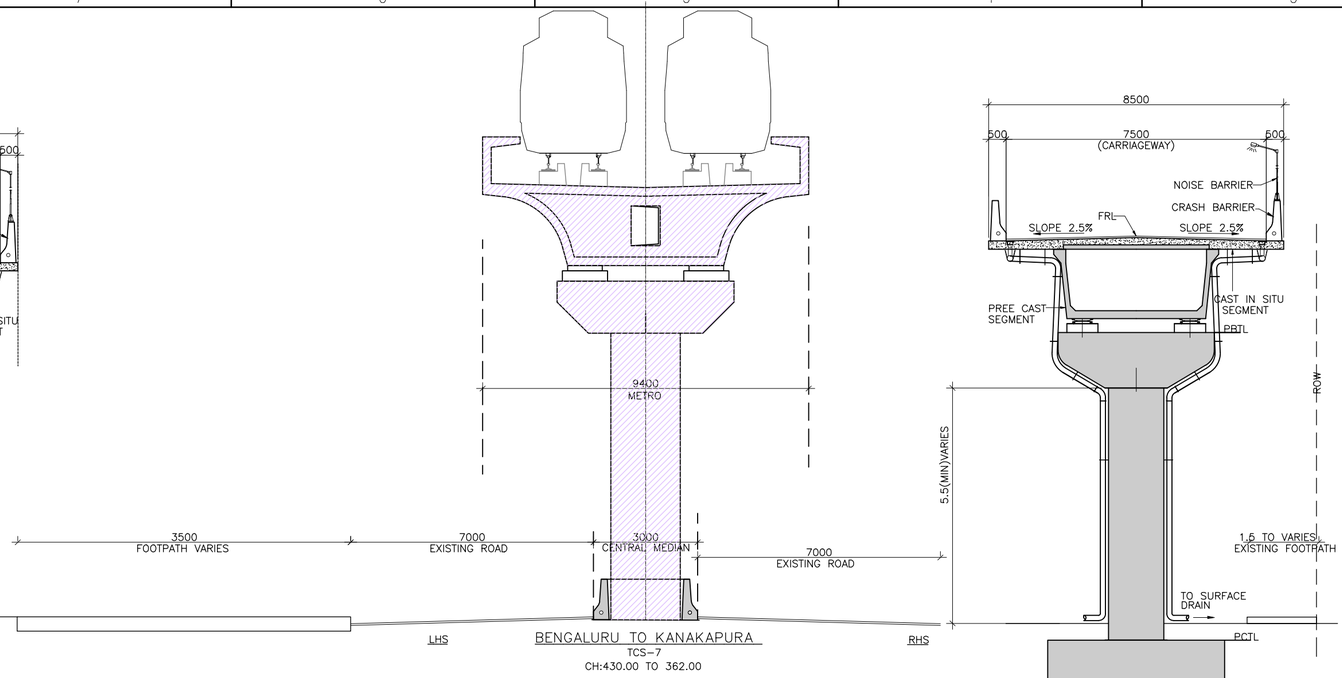
M/S NAGESH CONSULTANTS

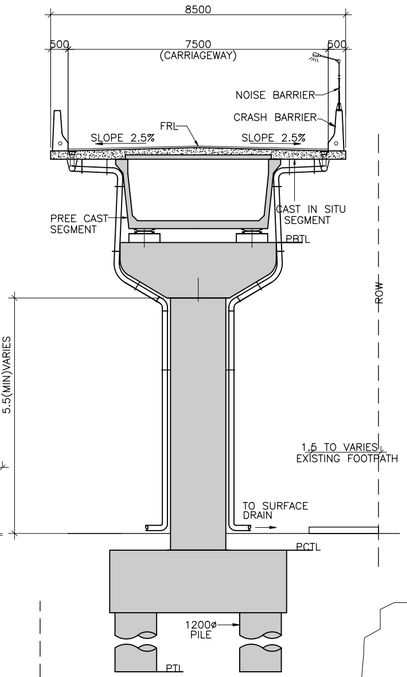
2, 6 TH CROSS,

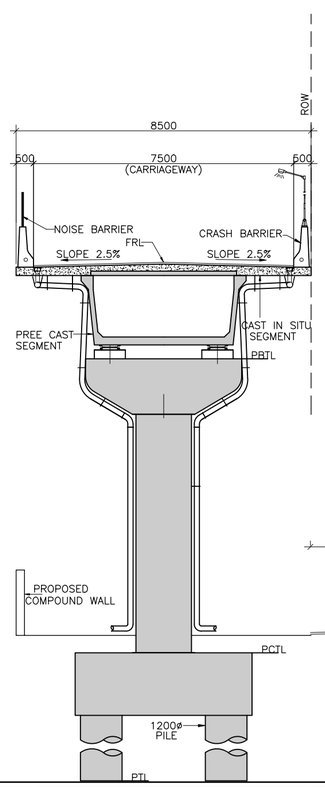
ASHOKNAGAR, BSK I STAGE,

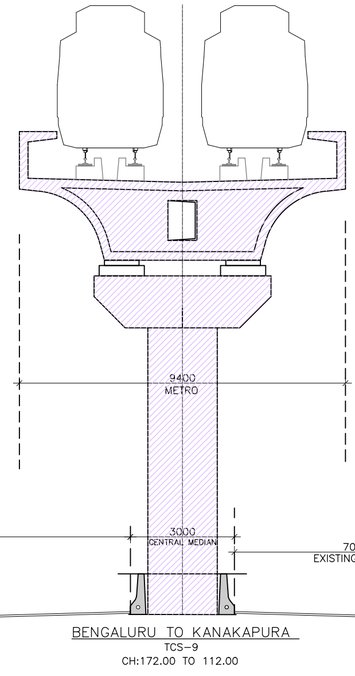
BANGALORE - 560 050

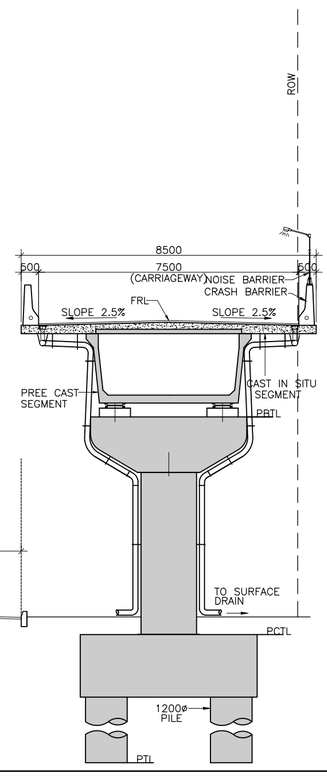












TENDER DRAWING

PROJECT :

Proposed Flyover at Konanakunte Cross for through traffic from kanakapura to Banashankari.

CLIENT :

BENGALURU SMART INFRASTRUCTURE LIMITED (B-SMILE)

#108,1st Floor, Annexe-2 Building

N.R.Square,Bengaluru-560002

REV.	DATE	DESCRIPTION	SIGN

DRG NO : NC/B-SMILE/TCS-04

TITLE :

TYPICAL CROSS SECTION

DRAWN BY : NITYANAND	DESIGNED BY : SHYAM
CHECKED BY : MANJUNATH H.S	APPROVED BY : BVN
DATE :	26.06.2025
SHEET SIZE (A2)	SHEET SCALE: AS SHOWN

CONSULTANT SIGNATURE :

B.V. NAGESH

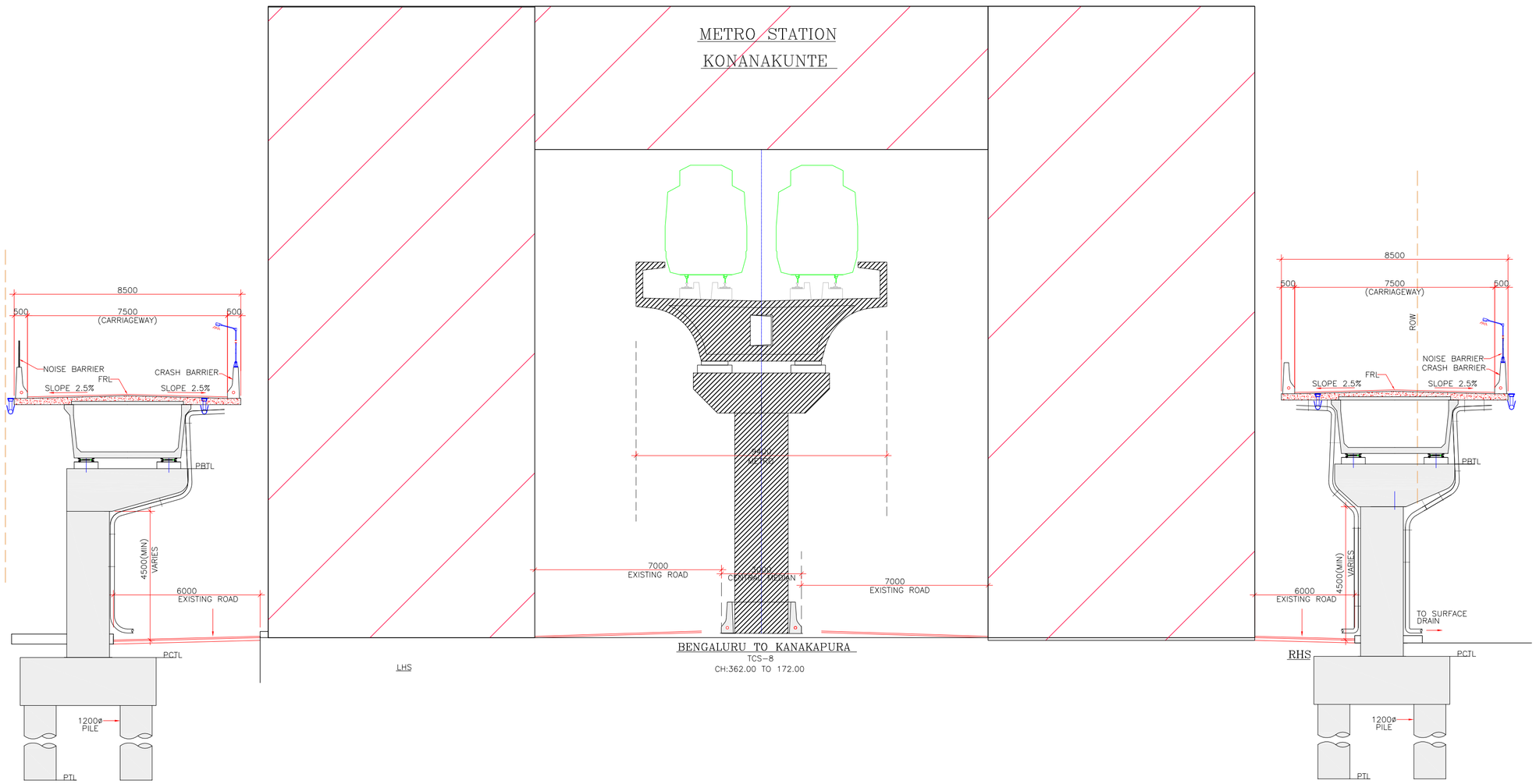
DPR CONSULTANT :

M/S NAGESH CONSULTANTS

2, 6 TH CROSS,

ASHOKNAGAR, BSK I STAGE,

BANGALORE - 560 050



TENDER DRAWING

PROJECT :

Proposed Flyover at Konanakunte Cross for through traffic from kanakapura to Banashankari.

CLIENT :

BENGALURU SMART INFRASTRUCTURE LIMITED (B-SMILE)

#108,1st Floor, Annexe-2 Building

N.R.Square,Bengaluru-560002

REV.	DATE	DESCRIPTION	SIGN

DRG NO : NC/B-SMILE/TCS-05

TITLE :

TYPICAL CROSS SECTION

DRAWN BY : NITYANAND	DESIGNED BY : SHYAM
CHECKED BY : MANJUNATH H.S	APPROVED BY : BVN
DATE :	26.06.2025
SHEET SIZE (A2)	SHEET SCALE: AS SHOWN

CONSULTANT SIGNATURE :

B.V. NAGESH

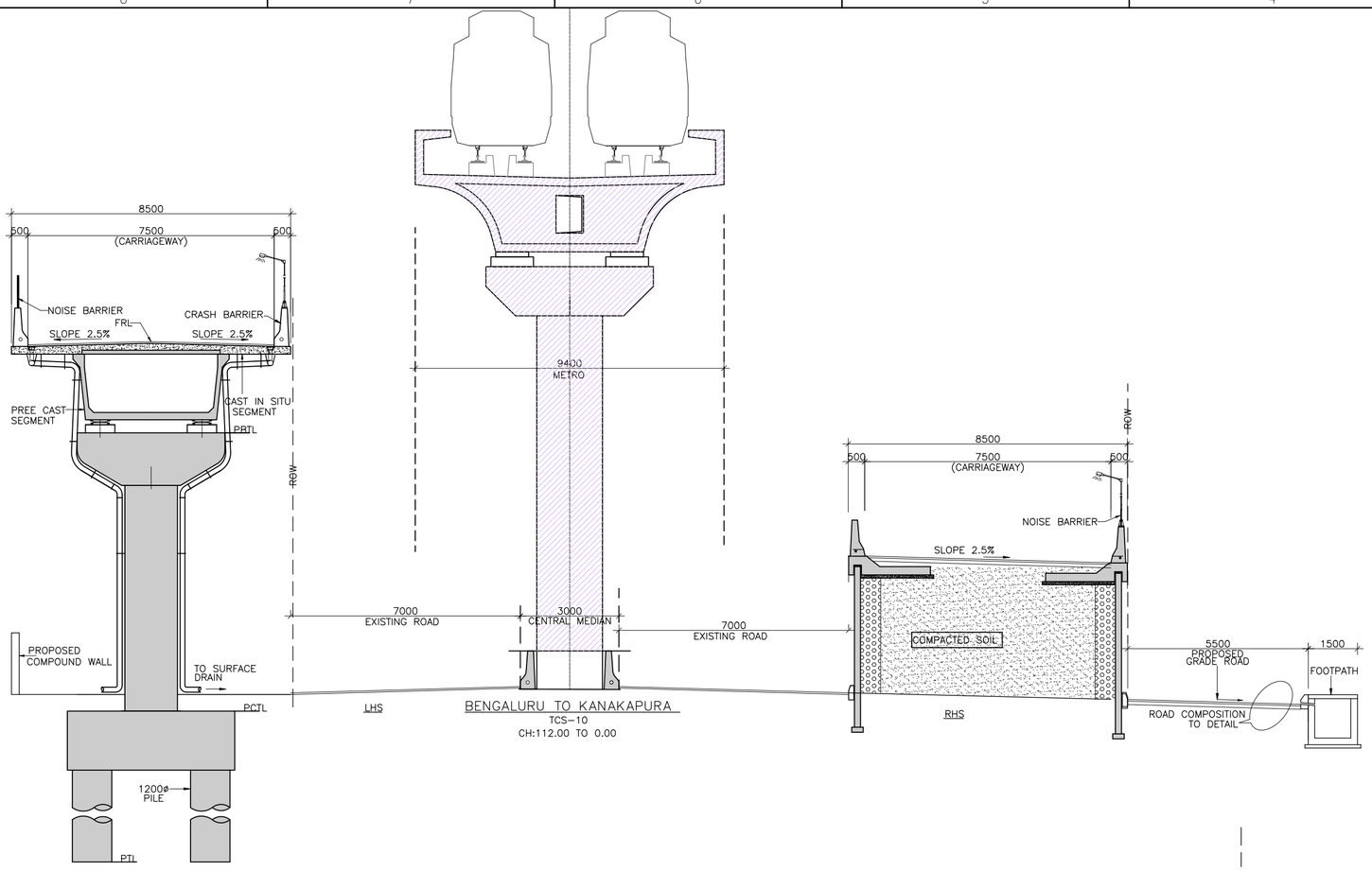
DPR CONSULTANT :

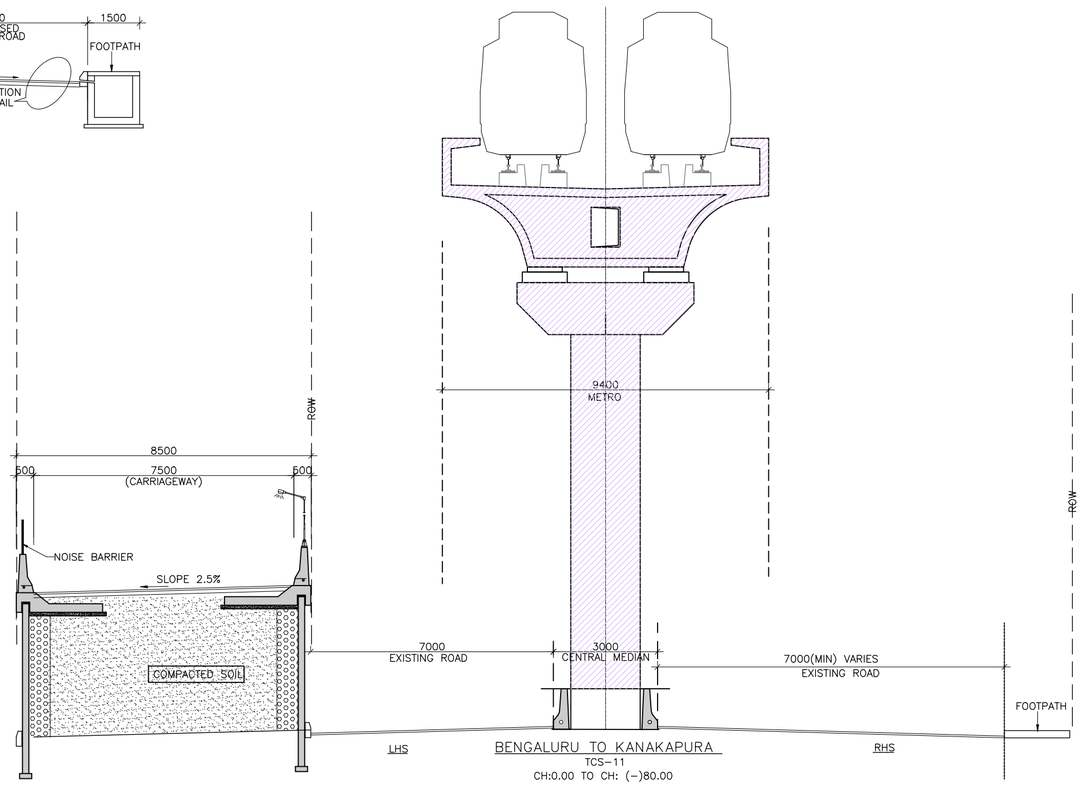
M/S NAGESH CONSULTANTS

2, 6 TH CROSS,

ASHOKNAGAR, BSK I STAGE,

BANGALORE - 560 050





TENDER DRAWING

PROJECT :

Proposed Flyover at Konanakunte Cross for through traffic from kanakapura to Banashankari.

CLIENT :

BENGALURU SMART INFRASTRUCTURE LIMITED (B-SMILE)

#108,1st Floor, Annexe-2 Building

N.R.Square,Bengaluru-560002

REV	DATE	DESCRIPTION	SIGN

DRG NO : NC/B-SMILE/TCS-06

TITLE :

TYPICAL CROSS SECTION

DRAWN BY : NITYANAND	DESIGNED BY : SHYAM
CHECKED BY : MANJUNATH H.S	APPROVED BY : BVN
DATE :	26.06.2025
SHEET SIZE (A2)	SHEET SCALE: AS SHOWN

CONSULTANT SIGNATURE :

B.V. NAGESH

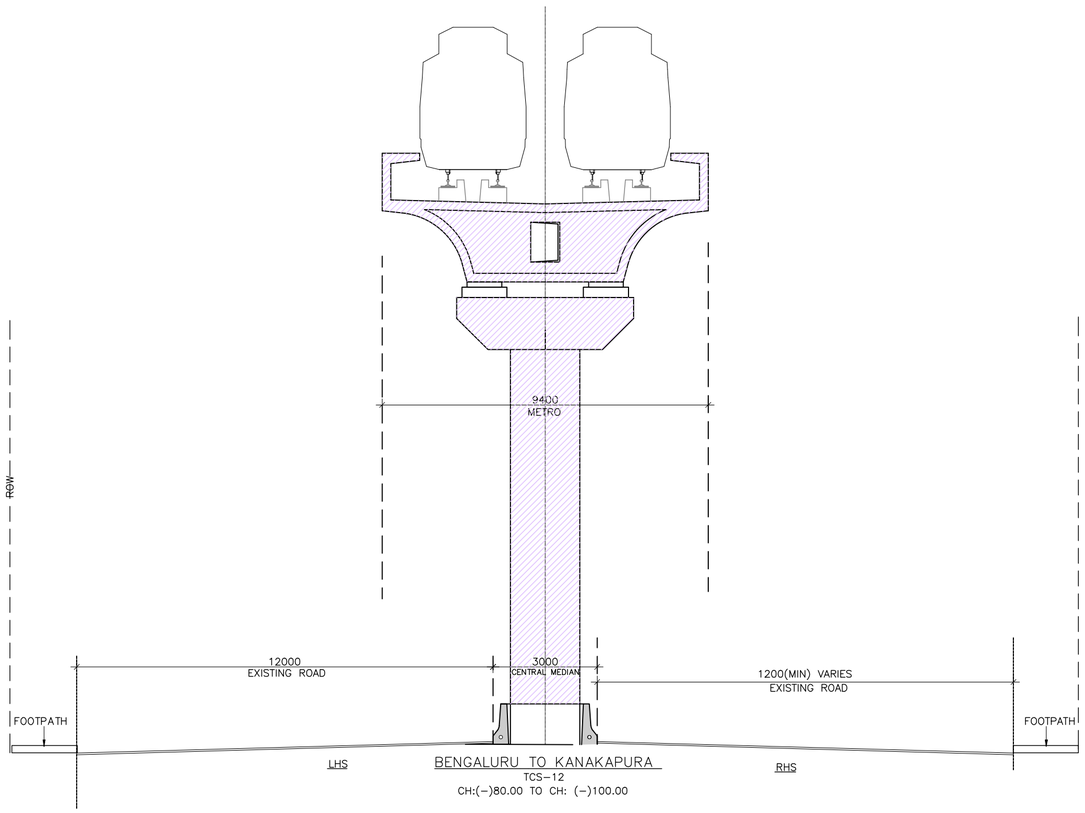
DPR CONSULTANT :

M/S NAGESH CONSULTANTS

2, 6 TH CROSS,

ASHOKNAGAR, BSK I STAGE,

BANGALORE - 560 050



TENDER DRAWING

PROJECT :

Proposed Flyover at Konanakunte Cross for through traffic from kanakapura to Banashankari.

CLIENT :

BENGALURU SMART INFRASTRUCTURE LIMITED (B-SMILE)

#108,1st Floor, Annexe-2 Building

N.R.Square,Bengaluru-560002

REV.	DATE	DESCRIPTION	SIGN

DRG NO : NC/B-SMILE/TCS-07

TITLE :

TYPICAL CROSS SECTION

DRAWN BY : NITYANAND | DESIGNED BY : SHYAM

CHECKED BY : MANJUNATH H.S | APPROVED BY : BVN

DATE : 26.06.2025

SHEET SIZE (A2) | SHEET SCALE: AS SHOWN

CONSULTANT SIGNATURE :

B.V. NAGESH

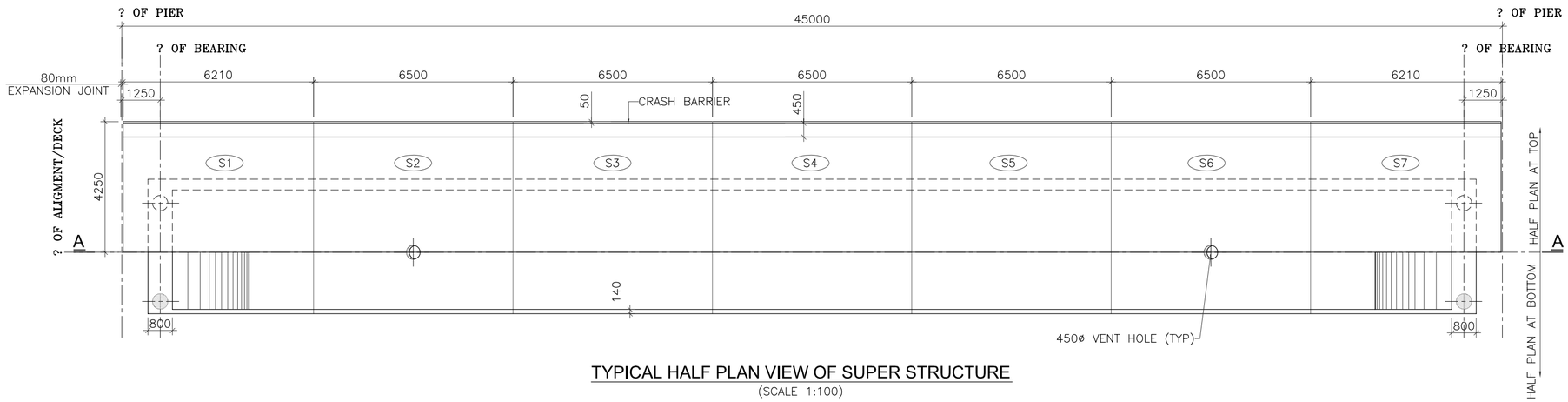
DPR CONSULTANT :

M/S NAGESH CONSULTANTS

2, 6 TH CROSS,

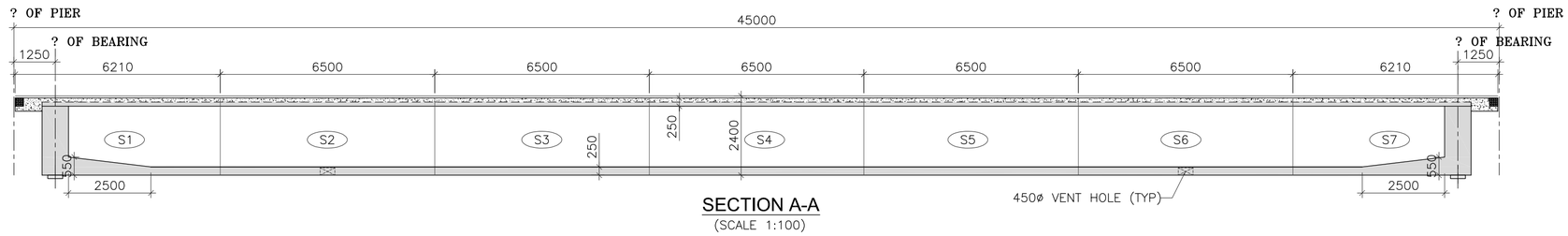
ASHOKNAGAR, BSK I STAGE,

BANGALORE - 560 050



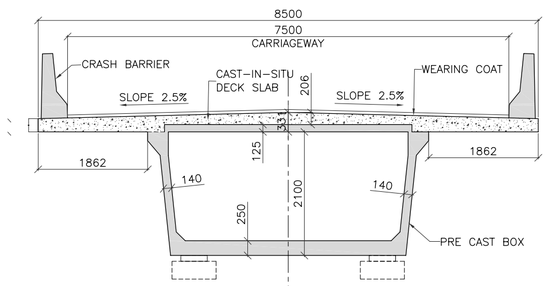
TYPICAL HALF PLAN VIEW OF SUPER STRUCTURE

(SCALE 1:100)



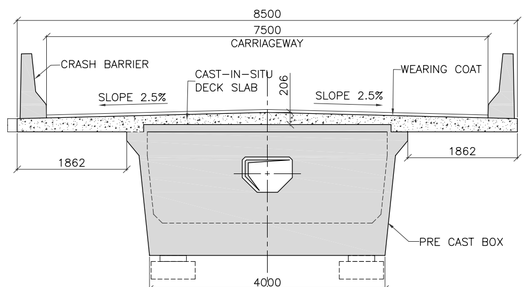
SECTION A-A

(SCALE 1:100)



MID SECTION

(SCALE 1:50)



END SECTION

(SCALE 1:50)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SPECIFIED
2. FOLLOW WRITTEN DIMENSIONS ONLY
3. GRADE OF CONCRETE
   U TROUGH – UHPFRC M150 GRADE
   DECK SLAB & END DIAPHRAGM M50
4. STRIP SEAL EXPANSION JOINT – 80mm
5. FOR EXPANSION JOINT & DECK CONTINUITY LOCATION & DETAILS REFER SEPARATE DRAWING
6. THE LOCATION OF JACKS FOR LIFTING THE SUPERSTRUCTURE TO REPLACE BEARINGS ETC. IS SHOWN THUS ↑ SHALL BE DISTINCTLY ETCHED FOR EASY IDENTIFICTION ON THE DIAPHRAGM
7. OPENING PROVIDED IN DIAPHRAGM SHALL BE USED FOR TAKING OUT THE ELECTRICAL CABLES
8. EPOXY JOINTING OF SEGMENTS ARE PROPOSED AS PER CL:4, IRC SP65–2005.

PROJECT :

Proposed Flyover at Konanakunte Cross for through traffic from kanakapura to Banashankari.

CLIENT :

BENGALURU SMART INFRASTRUCTURE LIMITED (B-SMILE)

#108,1st Floor, Annexe-2 Building

N.R.Square,Bengaluru-560002

REV.	DATE	DESCRIPTION	SIGN

DRG NO : NC/B-SMILE/CON-03

TITLE : **SUPER STRUCTURE (TYP)**
8.5 M WIDE DECK

DRAWN BY : N D N	DESIGNED BY : SHYAM
CHECKED BY : MANJUNATH H.S	APPROVED BY : BVN
DATE :	05.08.2025
SHEET SIZE (A2)	SHEET SCALE: AS SHOWN

CONSULTANT SIGNATURE :

B.V. NAGESH

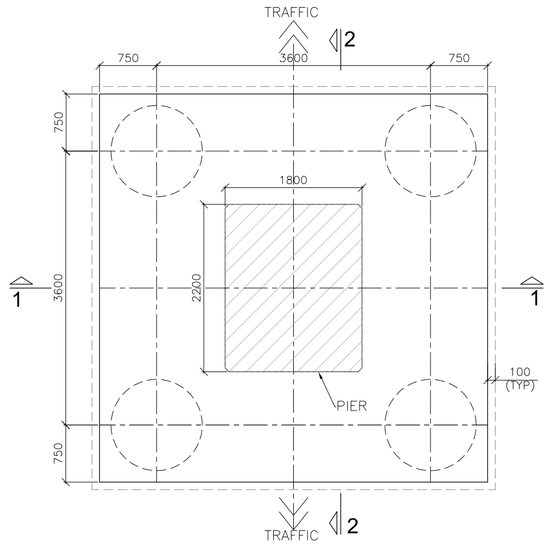
DPR CONSULTANT :

M/S NAGESH CONSULTANTS

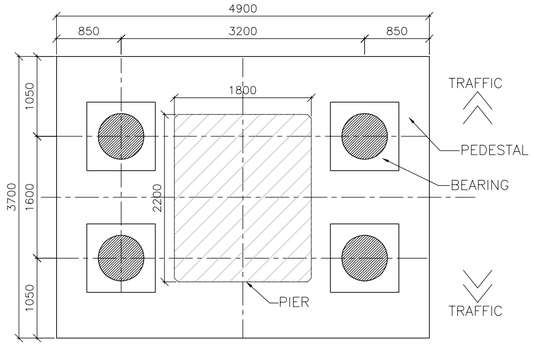
2, 6 TH CROSS,

ASHOKNAGAR, BSK I STAGE,

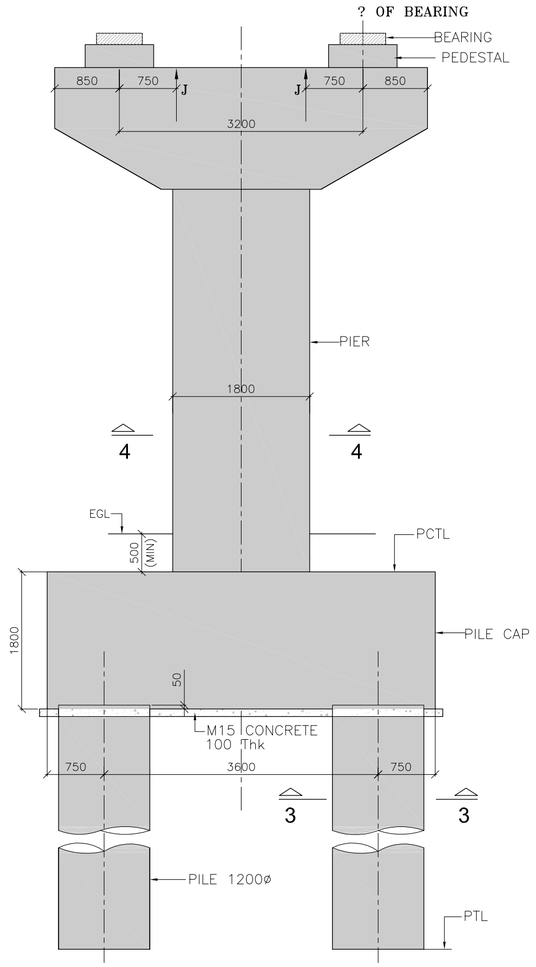
BANGALORE - 560 050



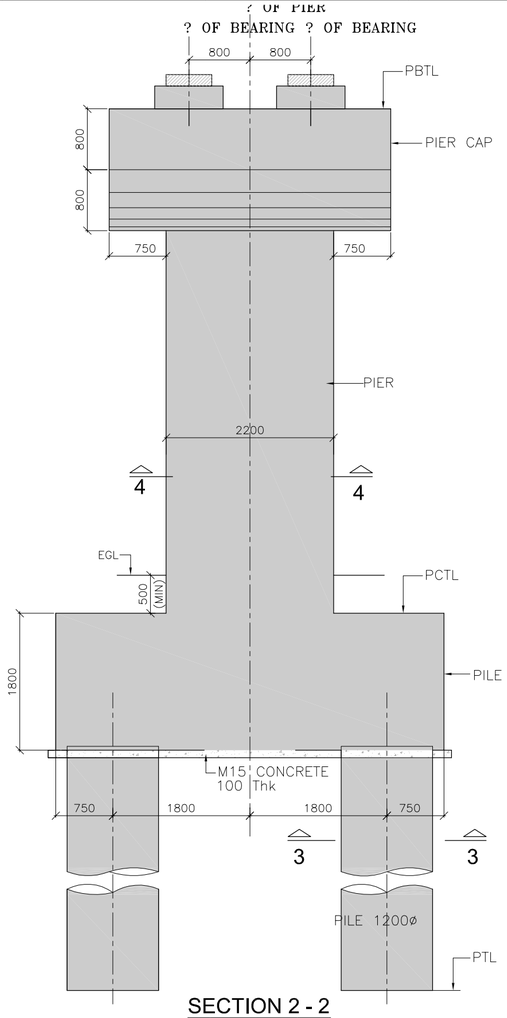
PLAN AT PILE CAP
(SCALE 1:50)



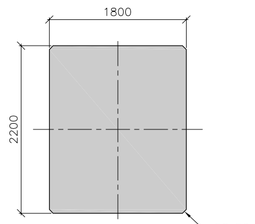
PLAN AT BEARING LEVEL
(SCALE 1:50)



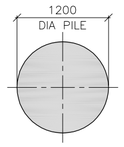
SECTION 1 - 1
(SCALE 1:50)



SECTION 2 - 2
(SCALE 1:50)



SECTION 4-4
(SCALE 1:50)



SECTION 3-3
(SCALE 1:50)

NOTES:

1. ALL DIMENSIONS ARE IN 'mm', UNLESS OTHERWISE MENTIONED.
2. ALL DESIGN MIX CONCRETE SHALL CONFORM TO SEC 6 AND Cl.18.5.4 of IRC: 112–2020
3. GRADE OF STEEL SHALL BE Fe 550 HYSD BARS AS PER TABLE 18.1 OF IRC:112–2020.
4. GRADE OF CONCRETE SHALL BE RCC 50 (DESIGN MIX) FOR PIER CAP, PIER AND M35 FOR PILE CAP & PILE .
5. LEVELING COURSE BELOW FOUNDATION SHALL BE 100mm THICK IN CEMENT CONCRETE M15.
6. PILE SHALL BE EXECUTED AS PER IS:2911 PART–I, SEC–4
7. DO NOT SCALE THE DRAWING. FOLLOW FIGURED DIMENSIONS ONLY
8. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH OTHER RELEVANT DRAWINGS OF THIS WORK
9. PILE TERMINATION LEVEL MENTIONED IN THE DRAWING IS AS PER SOIL REPORT.ACTUAL TERMINATION SHALL BE DECIDED AT SITE AS PER THE TERMINATION CRITERIA FINALIZED BASED DPR.

TENDER DRAWING

PROJECT :

Proposed Flyover at Konanakunte Cross for through traffic from kanakapura to Banashankari.

CLIENT :

BENGALURU SMART INFRASTRUCTURE LIMITED (B-SMILE)
#108,1st Floor, Annexe-2 Building
N.R.Square,Bengaluru-560002

REV.	DATE	DESCRIPTION	SIGN

DRG NO : NC/B-SMILE/SUB CON-01

TITLE : Substructure Details for 8.5 m Wide Deck CONCRETE DIMENSIONS

DRAWN BY : S J M	DESIGNED BY : H V S
CHECKED BY : MANJUNATH H.S	APPROVED BY : BVN
DATE :	22.01.2026
SHEET SIZE (A2)	SHEET SCALE: AS SHOWN

CONSULTANT SIGNATURE :

B.V. NAGESH

DPR CONSULTANT :

M/S NAGESH CONSULTANTS
2, 6 TH CROSS,
ASHOKNAGAR, BSK I STAGE,
BANGALORE - 560 050